Claims

What is claimed:

1. A method of fabricating an electro-optical device suitable for use in an image forming system, the method comprising the steps of

imbedding a sensor in a substrate to form a sensor area and a non-sensor area; applying a first filter layer on at least a portion of the non-sensor area to at least partially planarize the device; and

applying a second filter layer over at least a portion of the substrate without removing the first filter layer on the non-sensor area.

10

5

- 2. The method of claim 1, further comprising the step of applying a base layer on the substrate before the step of applying a first filter layer.
- 3. The method of claim 1, wherein, in the step of applying a base layer, the base layer is translucent.
- 4. The method of claim 1, further comprising the step of mounting the electrooptical device in an image forming system.
- 20 5. The method of claim 1, wherein, in the steps of applying, at least one of the first and second filter layers contains a pigment.

10

15

20

- 6. The method of claim 1, further comprising the step of applying a second filter layer on at least a portion of a second non-sensor area to at least partially planarize the device.
- 7. The method of claim 6, further comprising the step of applying a third filter layer over at least a portion of the substrate without removing the second filter layer on the second non-sensor area.
- 8. The method of claim 7, wherein, in the steps of applying, the first filter layer corresponds to a first primary color, the second filter layer corresponds to a second primary color, and the third filter layer corresponds to a third primary color.
 - 9. A method of making a photosensitive chip for image sensing, the method comprising the steps of:
 - imbedding a photosensor in a substrate of a photosensitive chip;
 - covering a sensor area with a filter layer, the sensor area substantially overlying the photosensor;
 - permanently covering a non-sensor area with the filter layer to at least partially planarize a surface of the photosensitive chip, the non-sensor area not substantially overlying the photosensor; and
 - applying a second filter layer over at least a portion of the substrate.
 - 10. The method of claim 9, further comprising the step of applying a base layer on the substrate before the step of covering.

5

15

20

11. A method of applying a filter layer of substantially uniform thickness for an image forming system, the method comprising the steps of

providing a wafer containing at least two photosensors; and

applying a first filter layer on at least a portion of a non-sensor area of the wafer for applying a second filter layer of substantial uniform thickness over the at least two photosensors.

- 12. The method of claim 11, further comprising the step of applying a base layer on the wafer before the step of applying.
 - 13. An electro-optical device suitable for use in an image forming system, the device comprising

a substrate;

a sensor embedded in the substrate forming a sensor area and a non-sensor area;

a first filter layer on at least a portion of the non-sensor area to at least partially planarize the device; and

a second filter layer applied over at least a portion of the substrate without removing the first filter layer on the at least a portion of the non-sensor area.

14. The electro-optical device of device of claim 13, further comprising a base layer on the substrate.